A CADEIVITY

Newsletter

DEDICATED

TO SCIENTIFIC

RESEARCH AND

EDUCATION,

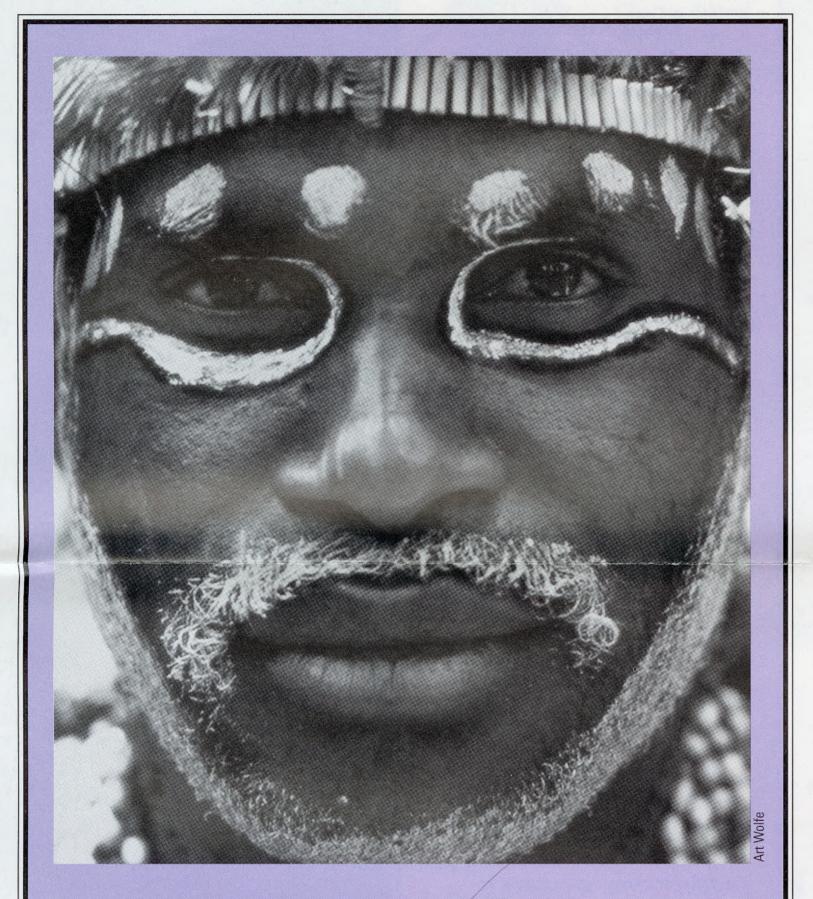
RESPECT FOR
THE NATURAL

INSPIRING

WORLD



MEMBERS MEETING



ENDANGERED PEOPLES

with Art Davidson * Wednesday, September 14 * 2 and 7:30 p.m.

oday, indigenous peoples are demanding liberation and asking for understanding of their way of life. They seek the return of their lands and the right to determine their future. Over the course of human history, tribal peoples have emerged, migrated, joined with others and faded away. But in our time, as never before, distinct cultures and communities are vanishing almost overnight.

Author Art Davidson will present a slide-illustrated lecture on the history of indigenous peoples' struggle for survival and recognition of their rights around the world. "The battle lines of cultural survival cross every continent," writes Davidson in the introduction of his book *Endangered Peoples*. "In virtually every country, indigenous peoples are fighting for their lives, their identities, their futures."

In researching his book, Davidson traveled tens of thousands of miles interviewing people whose lives and lands are threatened — whether by oil development, by large dam projects that flood their ancestral homes, by loss of their religious freedom, by famine and drought, or by political and economic strife. He will describe the crises facing the Taureg, Yup'ik, Maasai, Igorots, Ainu, Sami, Yanomami, Maori, Sarawak, and others.

A book-signing will follow the program outside the Academy bookstore in Cowell Hall. Both stores will be open before and after the programs.

Please present your membership card at the Academy entrance and again at the auditorium. Members meetings are provided as a benefit of membership and thus are only open to Academy members.

NEW EXECUTIVE DIRECTOR

William Kimball, chair of the Academy's board of trustees, announced in July the unanimous decision of the board to appoint Dr. Evelyn Handler as the next executive director of the California Academy of Sciences. Dr. Handler will assume her duties on October 1, 1994.

A distinguished biologist, an experienced administrator and a proven leader, Dr. Handler has a strong scientific background and a consummate interest in education. Dr. Handler succeeds Roy Eisenhardt who resigned the position on May 15 following five years of outstanding leadership. Dr. John McCosker, who has been serving as acting director of the Academy, will continue in that capacity until Handler's arrival.

"We are fortunate to have someone of Dr. Handler's distinction to lead the Academy at a time of heightened public awareness of the fragility of our natural environment," Kimball said. "Looking ahead to the challenges and opportunities as we move into the next century of science and learning, we are delighted to bring her unique talents to the position."

Dr. Handler received her bachelor of arts degree in

physiology and chemistry from Hunter College in 1954, and a master of science and doctorate in biology in 1962 and 1963, respectively, from New York University. From 1962 to 1977, she was on the faculty of Hunter College of the City University of New York. Her research on hematopoiesis was supported by both National Institutes of Health and National Science Foundation grants. She was appointed, in 1977, to dean of the division of sciences and



mathematics at Hunter.

From 1980 to 1983, Dr. Handler was president of the University of New Hampshire. From 1983 to 1991, she was president of Brandeis University. Subsequently, she served as scholar in residence and associate in education at Harvard University.

NEW RECIPROCAL MUSEUM LIST

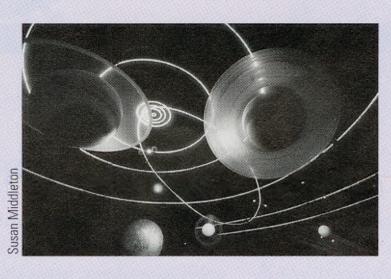
A revised list of reciprocal admission to museums is now available for members. The list includes 168 museums, science centers, planetariums, aquariums and similar institutions in 44 states and seven countries, where admission is free for members of the Academy. We've recently added thirteen new museums to the list!

The reciprocal admission list is a great benefit of your Academy membership. In the Bay Area, the list includes the Lawrence Hall of Science in Berkeley, the Lindsay Museum in Walnut Creek, and The Tech Museum of Innovation in San Jose. Stop by the membership desk at the main entrance and ask for your copy on your next visit to the Academy.

SMITHSONIAN ASTRONOMY LECTURES: MARS & THE SOLAR SYSTEM

From October 5-9 the Smithsonian Institution will present a variety of lectures and cultural events in San Francisco. The Academy will co-sponsor two of the lectures in the Academy's Auditorium.

James Zimbelman of the National Air and Space Museum will show photographs taken during both piloted and unpiloted spacecraft missions in "A Spacecraft Tour of the Solar System." The tour in-



cludes all the planets - Mercury to Pluto and other space objects such as moons and comets. All im-

ages were obtained in the past 20 years illustrating the tremendous increase in knowledge about space. - Saturday, October 8, 3 p.m.

Zimbelman also will present "A Close-up Look at Mars." The red planet has intrigued humanity for centuries. Discover what scientists now know about Mars as geologist Zimbelman surveys the fascinating surface of the planet. Learn how scientists have observed and mapped the Martian landscape, what kinds of surface processes have been observed and what new discoveries might be made on future Mars missions. — Sunday, October 9, 7:30 p.m.

Tickets can be purchased at the door a half hour before the lecture, or for tickets in advance, call the Smithsonian at (202) 287-3210 to receive an order form. Admission is \$5 for Academy members and \$6 for the general public.

ACADEMY TRAVEL

Migrating with the Monarchs

Every winter tens of millions of monarch butterflies cover the Oyamel firs of the Sierra

Madre Occidental Mountains with flockings of orange. Visit the monarch's overwintering grounds with Joe

NEW TRIP!

AVAILABLE

STILL

CES

Brennan. Our journey will take us from Mexico City (where you'll have

time for sightseeing) into the heart of the Sierra Madre range to view the butterflies at El Racer Monarch Sanctuary (altitude of 10,000 feet). You'll stay at the beautiful Hotel Avandaro Golf & Spa Resort, nestled high in the pine forests.

January 28-February 3, 1995 Cost per person: \$2,030 (based on double occupancy) plus air

> **Natural Treasures of Costa Rica** and Panama

December 20-30 / Cruise aboard the M.S. Polaris with Luis Baptista. Cost: \$4,380-\$6,810 per person (double occupancy), plus air.

Journey Through Ethiopia

January 15-February 3 / Land exploration with Charles Griswold and Richard Pankhurst. Cost: \$7,850 per person (double occupancy), plus air.

Great Whales: Baja California

SPA January 16–25 / Cruise aboard the M.V. Sea Bird with Jim Kelley. Cost: \$2,750-\$3,950 per person (double occupancy), plus air.

To enjoy one of these trips, call the Academy Travel Office at 750-7348.

TRADITIONAL ARTS

Nicaraguan Regional **Dances**

Ana Ofelia Boza and members of the local Nicaraguan community present a selection of traditional dances wearing colorful regional costumes. Auditorium — Sept. 10

Ukrainian Folk Music

Born in Lviw in the Ukraine, Ola Herasymenko-Oliynyk plays folk songs from her native country on the bandura — a large, lute-like instrument with 66 strings. Auditorium — Sept. 17

Latin American **Popular Songs**

Vocalist Juanita Newland-Ulloa and the Passion Ensemble perform Latin American melodies from the 1930s, including boleros and ballads, and discuss their influence on American music of the period. Auditorium — Sept. 24

Explore cultural traditions from around the world, Saturdays 1-2 p.m. Free after general admission. Call 750-7164, for more information.

Cafe's New Food Service is Cookin'

Welcome Gardner Merchant as the Academy's new food concessionaire! And welcome a flavorful variety of great new food items in the Jungle Cafe.

Stop in and enjoy a cappuccino, caffe latte, espresso, or a cafe mocca with a delectable muffin. If you have a tyrannosaurus-size appetite try a madeto-order Pizza Gusta, or enjoy a mouth-watering grilled chicken breast sandwich. Other pterodactyl-pleasing selections include deli sandwiches, salads, grilled cheese sandwiches, savory burgers, a daily changing hot entree, and combination and kid's meals. Be sure to check out the new food carts in the central courtyard offering glorious munchies while you relax by the whale fountain.

The Academy's Cafe is on the second level below Cowell Hall at the main entrance and is open every day of the year from 10 a.m. until one hour before the Academy closes (they will be open until 7:30 p.m. on free days, the first Wednesday of the month). You can enter via the stairs under the great white shark in Cowell Hall or from the outside stairs in the central courtyard.

The cafe is stroller and wheelchair accessible by using the elevator near African Hall. Members receive a 10 percent discount on all cafe purchases. Stop by and let us know what you think!

Interplanetary Jo Special Program: Look unique concert that fuses

timedia Brazilian perforn and Tetê Espíndolla capture the beau

Amazon and Pantan by taking you on Planetarium projections and N.A.S. tem will be shown while each plane Brazil's contemporary music composer Way and once at your destination on E Espíndolla, with her fascinating Brazili

by the caraviola (a Brazilian instrumen Tickets for this special presentation a the planetarium box office, 750-7127,

Extre

Feature Sky Show: The biggest, the smalles the coolest! Morrison Planetarium, the Acad whirlwind trip through the universe to look angry face of a planet of storms; look down t get a tan (well, maybe not) in the rays of the daily, with additional shows at 4 p.m. on we

The Moon a

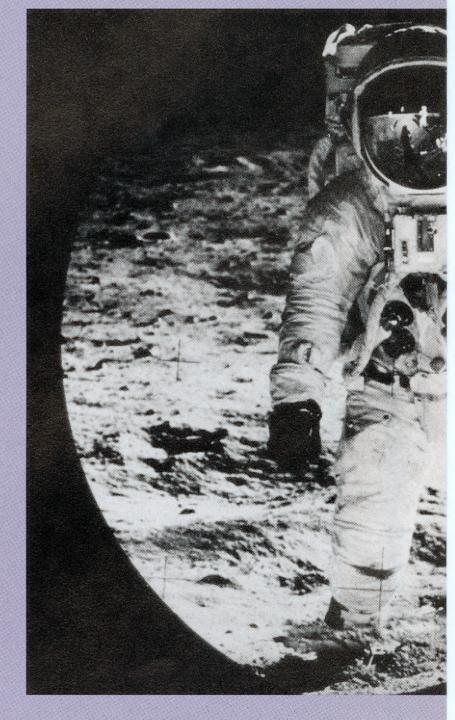
Current Sky Shows: The reverberations fro and Jupiter may have subsided, but "IMPAG and 4 p.m. weekends through Sept. 11 (aft through Nov. 27). "ECHOES FROM THE MC p.m. weekends through Labor Day. "STARTA p.m. weekdays/12 p.m. weekends; and "TO sented at 11 a.m. daily (after Labor Day both The planetarium will be **closed** Sept. 12–1 show times for "EXTREMES," starting Sept.

A Man on

Lecture Series: Twenty-five years ago, July and onto the moon. Science journalist Andrew The Voyages of the Apollo Astronauts," looks He conducted extensive interviews with all specialists in the Apollo program, allowing those involved. Chaikin's lecture will highli impact on society as the first lecture in the B

(The fall series will continue with: Dr. Fra-Dr. David Morrison from NASA on Nov. 15; a -Sept. 20, 7:30 p.m. Tickets \$2 each

For advance tickets, use the order form. Ticke Call 750-7141, for



rney-Mother Earth

to the sky and listen to the birds in a astronomy and ornithology in a mulance. In this return visit, Maria Emília ty and plight of the birds of Brazil's a trip through the cosmos.

A. spacecraft images of our solar systes theme is played on the piano by Maria Emília. Journey down the Milky arth, listen to the unique voice of Tetê in bird song imitations complemented that is a blend of viola and bandolin). re \$8 member/\$10 nonmember. Call to reserve. — Sept. 27 & 28, 7:30 p.m.

mes

the farthest, the fastest, the hottest, ... and emy's "outer space place," takes you on a at cosmic record-holders. Gaze upon the ne maw of the biggest volcano ever seen; or most luminous star. Presentations at 2 p.m. ekends, from Sept. 16–Nov. 27.

d the Stars

the collision of Comet Shoemaker-Levy 9 T!" continues daily at 2 p.m. weekdays/2 erward on weekends only at 1 and 3 p.m. ON" shows at 3:30 p.m. weekdays/1 and 3 LK," a tour of the night sky, shows at 12:30 UCH THE STARS," a family show, is preshows will be featured on weekends only). If for show changes article for

he Moon

20, 1969, man first stepped off planet Earth Chaikin's new book, "A Man on the Moon: at the glory of the era of moon exploration. of the living astronauts and many technical aim to give his readers an intimate view of the Apollo program and its continuing enjamin Dean Lecture Series.

ak Drake from the SETI Institute on Oct. 18; and Dr. Carol Stoker from NASA on Dec. 6.)

s are available at the door on standby basis. nore information.

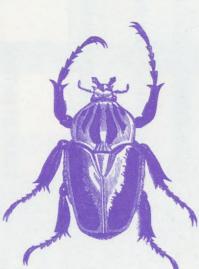


ADULT AND FAMILY EDUCATION

New this fall! Academic credit available through San Francisco State University for four of the Academy's adult education courses. Here are two of the four courses granted this privilege (1 credit each):

Biological Illustration

Students of every ability, from those who have never drawn to those seeking to perfect their



skills, are introduced to illustrating the forms of nature. Instructor Dr. Charles Stasek will explore shaded pencil, stippled ink, line, coquille

and scratch boards, and shading film techniques. A portion of each class is devoted to a critique session, providing individual attention.

Oct. 6 to Nov. 17 (7 Thurs.), 7–10 p.m. Cost: \$110 members/\$125 nonmembers (plus \$35 for optional SFSU credit)

Science Libraries and Alternative Resources

Here's a unique opportunity for you to learn how to use both traditional science library resources and alternative research methods. Pennington Ahlstrand, Anne Malley and Teresa Meikle will cover topics that include the workings of a library, research skills and preparation, monographs, periodicals, archives, CD-ROM resources and internet. Also included will be a close look at the Academy's Library and Biodiversity Resource Center.

Oct. 11 to Nov. 29 (8 Tues.), 7–9 p.m. Cost: \$110 members/\$125 nonmembers (plus \$35 for optional SFSU credit)

For more information on these and other courses offered through the adult and family education program, call our office at 750-7100.

Witness: North American Endangered Species

One hundred photographs taken by Academy photographers David Liittschwager and Susan Middleton for the "Witness: North American Endangered Species" book and exhibit will be the cover story of Life Magazine's September issue.

The book, to be released in October, will be sold in the Academy Store and includes an introduction by E.O. Wilson, a leading authority on biodiversity and a two-time Pulitzer Prize winner. Sixty percent of royalties from all book sales will go toward Academy research and education. Plus, if you purchase the book through the Academy's store, additional proceeds also benefit the Academy.

Look for details about the exhibit in the October newsletter!

SPECIAL LECTURES

Global Horizons and Rocky Shores

Biological responses to human impacts reverberate throughout the environment. The end result often is an overall outcome that is much greater than the initial simple changes. Dr. Jane Lubchenco will discuss the importance of being cautious in initiating environmental change.

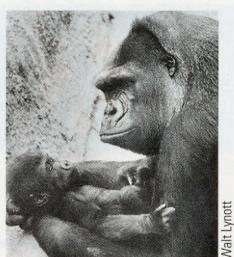
September 10, 6:30 p.m. \$6 members/\$8 nonmembers

Gorilla Tactics

Third in a Series of Lectures by Internationally Recognized Conservationists, Co-Sponsored by the Wildlife Conservation Society

The three sub-species of gorilla — the mountain gorilla, Grauer's gorilla, and the western lowland gorilla — are geographically isolated from each other across the African forest zone and differ widely in their conservation needs. The key to their conservation success is a mix of adaptive strategies for each of the three gorilla populations.

Dr. Amy Vedder, director of the Africa Program for the Wildlife Conservation Society, is widely known for her research in primatology, forest ecology, and conservation biology. Her pioneering studies of the feeding ecology and population dynamics of free-ranging mountain gorillas in Rwanda



ecology and population dynamics of free-ranging mountain gorillas in Rwanda during the late 1970s provided the background for launching the Mountain Gorilla Project. By involving the Rwandan government and local people in saving the mountain gorillas, through park jobs and ecotourism, the project helped increase the gorilla population of 25% in 1981, to well over 300 by 1989.

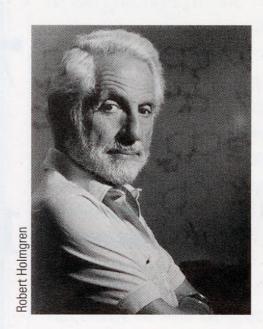
ecotourism, the project helped increase the gorilla population of 254 in 1981, to well over 300 by 1989. She will discuss conservation approaches and give an update on the current unrest in Rwanda and how it is affecting conservation efforts there.

October 18

Lecture, 7:30 p.m.; \$6 members/\$8 nonmembers Reception only, 6 p.m.; \$30 members/\$35 nonmembers

Science In Fiction and the Real Folks Behind Jurassic Park

A vast gulf exists between the world of science and that of the liberal-arts educated public. Few have bridged that gulf as well as noted Stanford Chemistry Professor



Carl Djerassi (alias the "father" of the birth control pill), whose second career as a writer of "science in fiction" is pulling the two worlds a little bit closer.

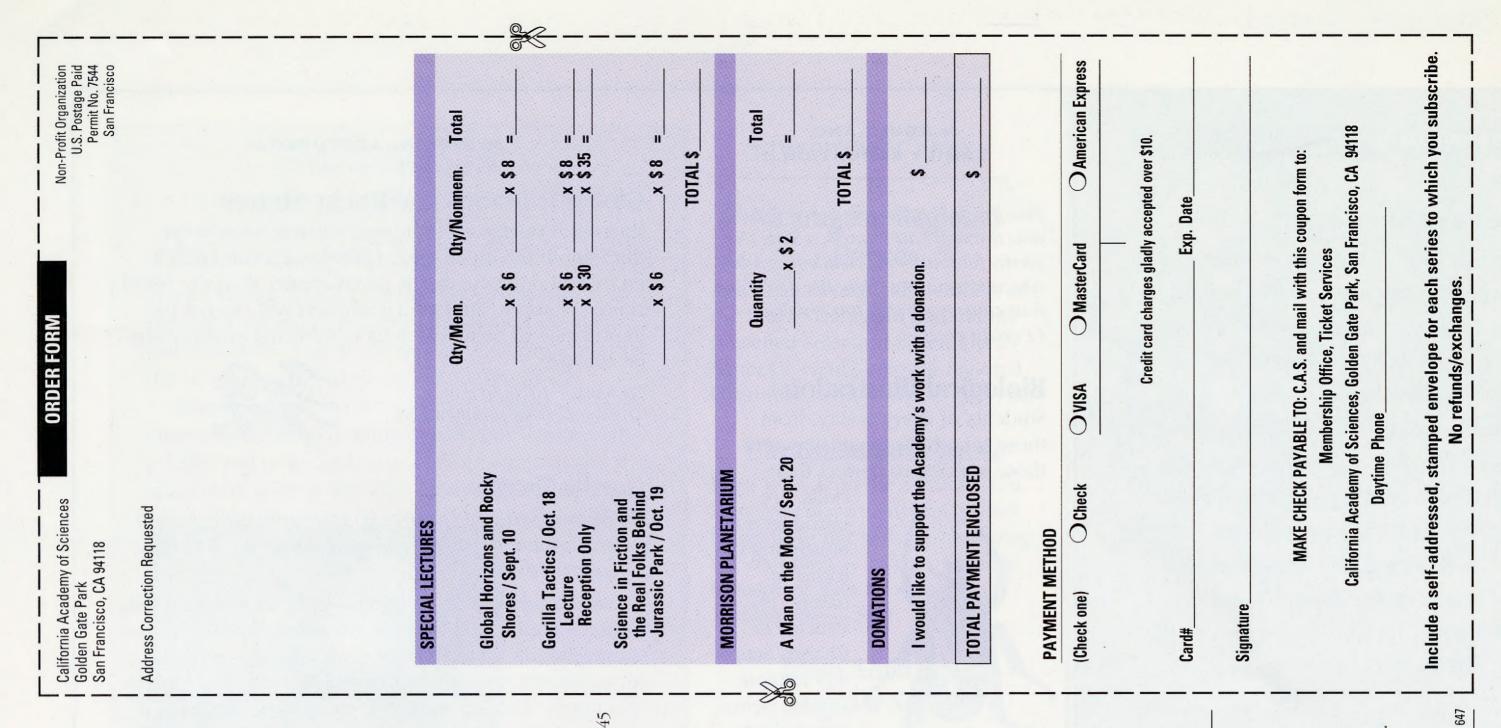
Recipient of 15 science awards and 12 honorary doctorates, author of 1,200 scientific articles and seven scientific books, Dr. Djerassi invites those of us who don't do hard science to learn about

those who do — in his newest work of fiction, *The Bourbaki Gambit*. Through a special literary genre, science in fiction, he illuminates the tribal culture of scientists, rather than dwelling on the science they do.

Djerassi, now 70, reveals how inherently collegial and competitive the scientific tribe is, how driven it is by the need for recognition, and talks about the graying of Western science. While discovering what it is that makes scientists tick, we learn how the Nobel Prizewinning PCR methodology — glossily popularized in the film, *Jurassic Park* — was actually developed.

October 19, 7:30 p.m. \$6 members/\$8 nonmembers

Special lectures are presented in the auditorium by experts in various aspects of natural history. Please use order form for tickets. For more information, call 750-7128.





from 10 a.m. to 5 p.m. July 4-Labor Steinhart Aquarium and Morrison Planetarium. Open every day Day we're open until 7 p.m. The Academy includes the Natural History Museum,

VISITOR SERVICES

Academy Information: 415-750-7145 Development Office: 750-7216 Biodiversity Center: 750-7361 Academy Store: 750-7330 Docent Tours: 750-7155 Admissions: 750-7159 Aquarium: 750-7247

Group Information: 750-7043 Education Office: 750-7100

Job Hotline: 750-7333 Laserium: 750-7138 Lectures: 750-7128

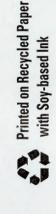
Membership Office: 750-7111 Planetarium: 750-7141 Library: 750-7102

Planned Giving: 750-7216 Security: 750-7000

Weekend Information: 750-7375 Volunteer Services: 750-7154 Switchboard: 221-5100 Travel: 750-7348

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THE

ACADEMY



Backpacks with animal, fish and dino designs \$19.95 Reusable canvas lunch bags in assorted animal prints \$8.95 Lunch boxes with carrying strap printed with aquarium fishes \$17.95 "Cookies on the go" tin containers \$6.95 (Plus Member Discount!)

SEPTEMBER

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
SPECIAL EXHIBITS: Monarcabutterfly beyond boundaries, through Sept. 18 Wildlife Photographer of the Year, through Oct. 10 Hands on Science, through December 1995 Birds of a Feather, through June 1995				PLANETARIUM SKY SHOWS	SCIENCE IN ACTION General programs, SFISH ROUNDABOUT closed for repairs	ROUNDABOUT
PLANETARIUM SKY SHOWS on weekdays at 2 p.m.	5 Labor Day "Echoes From the Moon" last sky show today (Plan- etarium)	6 Summer Hours End The Academy will be open from 10 a.m. to 5 p.m.	Free Day First Wednesday of each month	8 on weekends at 11 a.m., and at 12, 1, 2, 3 and 4 p.m.	Sun.–Fri., 11 a.m. Children's programs, Sat., 12:30 and 3 p.m.; this month's topic is the Everglades.	Global Horizons, 6:30 p.m. (Special Lectures) Nicaraguan Regional Dances, 1 p.m. (Traditional Arts)
11	The planetarium will be closed Sept. 12–15 for show changes	PENGUIN FEEDINGS are at 11:30 a.m. and 4 p.m. every day	14 Endangered Peoples, 2 & 7:30 p.m. (Members Meeting)		Planetarium reopens with new sky show "Extremes"	17 Ukrainian Folk Music, 1 p.m. (Traditional Arts)
18 "Monarcabutte beyond boundar exhibit closes MEMBERS	DOLPHIN FEEDINGS are at 10:30 a.m., and 12:30, 2:30 and 4:30 p.m.	A Man on the Moon, 7:30 p.m. (Planetarium Lecture)	21 LASERIUM SHOWS Thursday–Sunday, evenings, call 750-7138	Autumnal Equinox, 11:19 p.m.	23	Latin American Popular Songs, 1 p.m. (Traditional Arts) CIALTY TOURS
Please bring your membership card when you visit the Academy	rd 76	76 Therplanetary Jou		29	Free one-hour tour at 1:30 p.m. on Tuesdays, in Aquarium; Wednesdays, in Life Through Time; Thursdays, in Wild California. Highlight tours are offered daily.	

Oct. 9 - A Close-up Look at Mars (Smithsonian Lecture) Oct. 18 - Gorilla Tactics (Special Lectures) Oct. 19 - Science in Fiction (Special Lectures) Oct. 29 - "Witness: Endangered Species of North America" exhibit opens

Oct. 12 - Members Open House (6–9 p.m.) Nov. 16 - Spiders, with Charles Griswold Dec. 14 - Insects, with Richard Arnold